Internet (International Network – Example of WAN Network) : The **Internet** is a worldwide network of millions of computers connected together to share information.

- 1960s – ARPANET Project (Advanced Research Projects Agency Network) - To connect computers for research and communication by the **U.S. Department of Defence**.
- 1970s – Email & Networking - **Ray Tomlinson** invented **email in1971,** ARPANET expanded and connected more universities and research centers.
- 1983 – Development of INTERNET. ARPANET (**OSI Model**) switched to **TCP/IP**
- 1989–1991 - **Tim Berners-Lee** invented the **World Wide Web (WWW)**. First web page and first web browser were created.
- 1990s – Internet Goes Public. Commercial use of the internet started.
- 2000s – Social Media Era. Social networks like **Facebook, YouTube, Twitter, Instagram** were launched. Smartphones + mobile internet changed how people used the web.
- 2010s – Cloud, Apps & High-Speed Internet. High-speed broadband, 4G/5G, cloud storage (Google Drive, Dropbox) expanded internet usage. Online shopping, online banking, and e-learning became popular.
- 2020s – AI, IoT & Digital Transformation. Artificial Intelligence (AI), Machine Learning, smart devices (IoT), and digital payments became common.

1. What is Browser, Settings in Browser, set Default Browser, Startup web page, History, Delete Browsing Data, set default download location & Reset Settings.
2. Search in Google, Image Search with different settings & size, search any Board / Universities websites, Google input tools, Google Translate & Wikipedia.
3. The Submarine Cable Map is a free and regularly updated resource from TeleGeography. https://www.submarinecablemap.com/
4. Search System IP Address, Application of "AnyDesk" Software for Remotely System online.
5. Download fonts from www.1001fonts.com ->more -> logo type, then download fonts & install.
6. Download Software & Install, Unload installed softwares from Control Panel. Ex. – www.filehippo.com
7. Create e-mail ID, compose mail (To, CC & BCC), attach file, format text, reply & forward mail, spam, Signature line, set vacation responder, change password & Google Tools.
8. Use of ChatGPT & other AI Tools. Use of Social Media Platforms.
9. Remove Photo Background (remove.bg), Image Enhancer (https://picsart.com/ai-image-enhancer/) etc.
10. Book Train, Flight or Hotels online through IRCTC, goibibo, makemytrip etc.
11. Government Online Services: **www.digitalindia.gov.in** Download e-Adhar, check status etc, ECI site (Election commission of India), DigiLocker, Umang App etc.

www.india.gov.in General Government Services (All government services in one place)	**www.services.india.gov.in** Digital India Services Portal (Directory of all Govt. online services)	**www.uidai.gov.in** Aadhaar Services (UIDAI) (Aadhaar update, download, status)
www.digilocker.gov.in DigiLocker : (Digital certificates – marksheets, ID, license, etc.)	**www.incometax.gov.in** PAN, Income Tax & Finance (PAN card & ITR filing)	**www.digiyatra.gov.in** DigiYatra (Paperless airport entry system)
www.scholarships.gov.in National Scholarship Portal (NSP)	**www.nta.ac.in** NTA (Exams like JEE, NEET, UGC NET)	**www.swayam.gov.in** Free government online courses
www.diksha.gov.in e-Vidya / Diksha	**www.ncs.gov.in** National Career Service (NCS)	**www.results.gov.in/** All boards results
www.epfindia.gov.in EPFO (PF Services)	**https://eci.gov.in/** Election Commission of India	**www.irctc.co.in** IRCTC
web.umang.gov.in Government services in One app	**www.passportindia.gov.in** Passport Service	**www.gst.gov.in** GST Portal

12. Image Resize & Fill Online Form.
13. Convert file from one format to another: docx to pdf, xlsx to pdf, pptx to pdf etc.
14. download video from YouTube & other platforms etc
15. Design with Canva & Other Tools.
16. Use WhatsApp on System with QR Code / Scan.

Full Forms -

Basic Networking Terms

- **LAN** – Local Area Network
- **WAN** – Wide Area Network
- **MAN** – Metropolitan Area Network
- **PAN** – Personal Area Network
- **CAN** – Campus Area Network
- **SAN** – Storage Area Network
- **VPN** – Virtual Private Network
- **WLAN** – Wireless Local Area Network
- **WWAN** – Wireless Wide Area Network
- **Wi-Fi** – Wireless Fidelity
- **NAT** – Network Address Translation
- **NIC** – Network Interface Card
- **MAC** – Media Access Control
- **AP** – Access Point
- **SSID** – Service Set Identifier
- **OSI** – Open System Interconnected
- **TCP / IP** – Transmission Control Protocol / Internet Protocol

Internet Related Short Forms

- **URL** – Uniform Resource Locator
- **HTTP** – HyperText Transfer Protocol
- **HTTPS** – HyperText Transfer Protocol Secure
- **HTML** – HyperText Markup Language
- **IP** – Internet Protocol
- **TCP** – Transmission Control Protocol
- **UDP** – User Datagram Protocol
- **FTP** – File Transfer Protocol
- **SMTP** – Simple Mail Transfer Protocol
- **POP3** – Post Office Protocol Version 3
- **IMAP** – Internet Message Access Protocol
- **WWW** – World Wide Web
- **DNS** – Domain Name System
- **ISP** – Internet Service Provider

Security & Encryption

- **WPA** – Wi-Fi Protected Access
- **WEP** – Wired Equivalent Privacy
- **AES** – Advanced Encryption Standard

Networking Devices

- **MOD** – Modulator
- **DEM** – Demodulator
- **MODEM** – Modulator–Demodulator

Common Internet Terms

- **P2P** – Peer to Peer
- **I/O** – Input/Output
- **RSS** – Really Simple Syndication
- **TLD** – Top Level Domain
- **CGI** – Common Gateway Interface
- **API** – Application Programming Interface

Addressing & Network Identification

- **IPv4** – Internet Protocol Version 4
- **IPv6** – Internet Protocol Version 6
- **DHCP** – Dynamic Host Configuration Protocol
- **MAC** – Media Access Control
- **ARP** – Address Resolution Protocol
- **ICMP** – Internet Control Message Protocol

Digital Payments & Banking

- **UPI** – Unified Payments Interface
- **IMPS** – Immediate Payment Service
- **NEFT** – National Electronic Funds Transfer
- **RTGS** – Real Time Gross Settlement
- **AEPS** – Aadhaar Enabled Payment System
- **BBPS** – Bharat Bill Payment System
- **BHIM** – Bharat Interface for Money
- **USSD** – Unstructured Supplementary Service Data
- **NACH** – National Automated Clearing House
- **PoS** – Point of Sale
- **QR** – Quick Response (Code)
- **NFC** – Near Field Communication

Cards & Wallets

- **ATM** – Automated Teller Machine
- **PIN** – Personal Identification Number
- **CVV** – Card Verification Value
- **CC** – Credit Card
- **DC** – Debit Card
- **MPOS** – Mobile Point of Sale
- **KYC** – Know Your Customer

Digital Banking Services

- **DBT** – Direct Benefit Transfer
- **ECS** – Electronic Clearing Service
- **EFT** – Electronic Fund Transfer
- **E-NACH** – Electronic National Automated Clearing House
- **CBS** – Core Banking System
- **FD** – Fixed Deposit
- **RD** – Recurring Deposit

Cyber Security & Verification

- **OTP** – One-Time Password
- **2FA** – Two-Factor Authentication
- **SSL** – Secure Sockets Layer
- **TLS** – Transport Layer Security
- **PAN** – Permanent Account Number
- **GSTIN** – Goods and Services Tax Identification Number

Government Digital Finance Platforms

- **NPCI** – National Payments Corporation of India
- **PFMS** – Public Financial Management System
- **UIDAI** – Unique Identification Authority of India
- **DIGILOCKER** – Digital Locker Service
- **GSTN** – Goods and Services Tax Network

Financial Market & Investments

- **SEBI** – Securities and Exchange Board of India
- **NSE** – National Stock Exchange
- **BSE** – Bombay Stock Exchange
- **DEMAT** – Dematerialized (Account)
- **SIP** – Systematic Investment Plan
- **NAV** – Net Asset Value

Digital Commerce

- **COD** – Cash on Delivery
- **EMI** – Equated Monthly Instalment
- **OTP** – One-Time Password
- **RBI** – Reserve Bank of India